

Light Meters

The Cooke Corporation

cal-LIGHT 400 and 400F

Calibrated Precision Lightmeters

Description

- **Light Sensor (Model 400)** - Ergonomically designed angled sensor allows simultaneous measurement and readout without interference from the operator. The silicon photodiode with photopic and cosine correction assures precise measurements.
- **Light Sensor (Model 400F)** - The forward position of the light sensor which was designed specifically for use in museums and art galleries, allows the user to accurately measure the direct light falling down onto a painting or any other works of art.
- **Display** - Large, 10mm (3/8") LCD with units of measurement and low battery indicator offers comfortable reading during measurement.
- **"ON" and "HOLD" button** - Click to display reading. Hold to "freeze" display. Auto power off.
- **Sliding Coverplate** - Provides access to 9V battery and to the switch for selecting the measuring units (fc or lux)
- **Calibration seal** is affixed to every cal-LIGHT lightmeter after calibration to assure authenticity and prevent unauthorized alterations.
- **Carrying case**
- **Built-in, hands free stand**
(cal-LIGHT 400 only)



Model 400

For Museums and
Art Galleries



Model 400F

Specifications

Measuring Range

Autoranges 0.1 fc or lux to 40,000 fc or lux

Units

Choose fc or lux with user selectable switch located in battery compartment

Accuracy

- Intensity linearity: 2%
- Photopic: Better than 1.0% of CIE curve
- Cosine error: Less than $\pm 1.0\%$ up to an incident angle of $\pm 85^\circ$
- Overall accuracy $\pm 5\%$ of displayed value

Calibration

Calibrations and recalibrations are performed by COOKE and are traceable to NIST Standards. The photopic response of the calibrated sensor matches the CIE standard observer curve response to within 1% of the reading when using a standard tungsten source at 2856°K

Light Sensor

Silicon photodiode with photopic filter and cosine corrector

Diameter 10 mm, angled 70° from display face

(Model cal-LIGHT 400)

Temperature Ranges

Operation: 32° to 130°F (0° to 55°C)

Storage: -4° to 160°F (-20° to 70°C)

Cooke Part Number	NSN
cal-Light 400	6220-01-466-7567
cal-Light 400F	6220-01-466-7572